



## SEQUENCE LISTING

<110> BRANDT, CURTIS R.  
BULTMANN, HERMANN

<120> PHARMACOLOGICALLY ACTIVE ANTIVIRAL PEPTIDES AND METHODS  
OF THEIR USE

<130> 032026-0460

<140> 09/777,560

<141> 2001-02-06

<150> 60/184,057

<151> 2000-02-22

<150> 60/180,823

<151> 2000-02-07

<160> 32

<170> PatentIn Ver. 3.2

<210> 1

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 1

Arg Arg Lys Lys Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala  
1 5 10 15

Leu Leu Ala Pro  
20

<210> 2

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 2

Arg Arg Lys Lys Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala  
1 5 10 15

Leu Leu Ala Pro  
20

<210> 3  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 3  
 Arg Arg Lys Lys Ala Ala Val Ala Leu Leu Ala Val Leu Leu Ala Leu  
 1 5 10 15  
 Leu Ala Pro Pro  
 20

<210> 4  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 4  
 Arg Arg Lys Lys Pro Ala Val Leu Leu Ala Leu Leu Ala  
 1 5 10

<210> 5  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 5  
 Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Leu Lys  
 1 5 10 15  
 Leu Ala

<210> 6  
 <211> 18  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<220>  
 <221> MOD\_RES  
 <222> (11)..(12)  
 <223> D-form amino acid

<400> 6  
 Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Leu Lys  
           1                  5                  10                  15

Leu Ala

<210> 7  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
           peptide

<400> 7  
 Arg Gln Ile Lys Ile Trp Phe Pro Asn Arg Arg Met Lys Trp Lys Lys  
           1                  5                  10                  15

Pro Gly Tyr Ala Gly Ala Val Val Asn Asp Leu  
                   20                  25

<210> 8  
 <211> 16  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
           peptide

<220>  
 <221> MOD\_RES  
 <222> (1)..(16)  
 <223> D-form amino acid

<400> 8  
 Arg Gln Ile Lys Ile Trp Phe Pro Asn Arg Arg Met Lys Trp Lys Lys  
           1                  5                  10                  15

<210> 9  
 <211> 16  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
           peptide

<400> 9

Arg Gln Ile Lys Ile Phe Phe Pro Asn Arg Arg Met Lys Phe Lys Lys  
 1 5 10 15

<210> 10

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 10

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gly Tyr Ala Gly  
 1 5 10 15

Ala Val Val Asn Asp Leu  
 20

<210> 11

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 11

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gly Asp Val Tyr  
 1 5 10 15

Ala Asn Gly Leu Val Ala  
 20

<210> 12

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 12

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Lys Ile Asn Leu  
 1 5 10 15

Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu  
 20 25

<210> 13  
 <211> 26  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 13  
 Asp Pro Lys Gly Asp Pro Lys Gly Val Thr Val Thr Val Thr  
 1 5 10 15  
 Val Thr Gly Lys Gly Asp Pro Lys Pro Asp  
 20 25

<210> 14  
 <211> 36  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Formula  
 peptide

<220>  
 <221> MOD\_RES  
 <222> (1)..(10)  
 <223> charged amino acid; e.g. Lys or Arg; this region may encompass  
 either 0 or 3-10 Xaa repeats with the proviso that in one  
 embodiment either residues 1-10 are not present or residues  
 27-36 are not present

<220>  
 <221> MOD\_RES  
 <222> (27)..(36)  
 <223> charged amino acid; e.g. Lys or Arg; this region may encompass  
 either 0 or 3-10 Xaa repeats with the proviso that in one  
 embodiment either residues 1-10 are not present or residues  
 27-36 are not present

<400> 14  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala Ala Val Ala Leu Leu  
 1 5 10 15  
 Pro Ala Val Leu Leu Ala Leu Leu Ala Pro Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30  
 Xaa Xaa Xaa Xaa  
 35

<210> 15  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Formula  
peptide

<220>

<221> MOD\_RES

<222> (1)..(10)

<223> charged amino acid; e.g. Lys or Arg; this region may encompass  
either 0 or 3-10 Xaa repeats with the proviso that in one  
embodiment either residues 1-10 are not present or residues  
20-29 are not present

<220>

<221> MOD\_RES

<222> (20)..(29)

<223> charged amino acid; e.g. Lys or Arg; this region may encompass  
either 0 or 3-10 Xaa repeats with the proviso that in one  
embodiment either residues 1-10 are not present or residues  
20-29 are not present

<400> 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Ala Val Leu Leu Ala  
1 5 10 15

Leu Leu Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25

<210> 16

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 16

Arg Arg Lys Lys  
1

<210> 17

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 17

Arg Arg Lys Lys Leu Ala Ala Leu Pro Leu Val Leu Ala Ala Pro Leu  
1 5 10 15

Ala Val Leu Ala  
20

<210> 18  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 18  
Arg Arg Lys Lys Ala Ala Val Ala Leu Leu Pro  
1 5 10

<210> 19  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 19  
Arg Arg Lys Lys Ala Val Ala Val Ala Val Pro Ala Val Leu Leu Ala  
1 5 10 15

Leu Leu Ala Pro  
20

<210> 20  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 20  
Arg Arg Lys Lys Pro Ala Val Leu Leu Ala  
1 5 10

<210> 21  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 21

Arg Arg Lys Lys Pro Ala Val Leu Leu Ala Leu Leu Ala  
 1 5 10

<210> 22

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 22

Arg Arg Lys Lys Pro Ala Val Leu Leu Ala Leu Leu Ala Leu Leu Ala  
 1 5 10 15

<210> 23

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 23

Arg Arg Lys Lys Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala  
 1 5 10 15

Pro

<210> 24

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 24

Arg Arg Lys Lys Pro Ala Val Leu Leu Ala Leu Leu Ala Pro  
 1 5 10

<210> 25

<211> 11

<212> PRT

<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 25

Arg Arg Lys Lys Leu Leu Ala Leu Leu Ala Pro  
1 5 10

<210> 26

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 26

Arg Arg Lys Lys Leu Leu Ala Pro  
1 5

<210> 27

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 27

Arg Arg Lys Lys Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala  
1 5 10 15

Leu

<210> 28

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 28

Arg Arg Lys Lys Ala Ala Val Ala Val Val Pro Ala Val Leu  
1 5 10

<210> 29

<211> 11

